INDEX OF VOLUME XXIV.

ARCHIBALD, R. C. See REVIEWS, under Byerly, Exposition universelle, Kerst, Lobachevsky, Miller, Picard, Science and Learning, Science and the Nation, Teixeira, Thompson.

BATEMAN, H. The Solution of the Wave Equation by Means of Definite Integrals, 296.

BELL, E. T. Some Remarkable Determinants of Integers, 376.

BENNETT, A. A. An Elementary Derivation of the Probability Function, 477.

BERNSTEIN, B. A. Report of the Thirty-First Regular Meeting of the San Francisco Section, 417.

BLICHFELDT, H. F. See REVIEWS, under Blichfeldt.

BLISS, G. A. Integrals of Lebesgue, 1.

BLUMBERG, H. A Theorem on Semi-Continuous Functions, 381.

BROWN, E. W. See REVIEWS, under Annuaire, Weld.

CAJORI, F. Pierre Laurent Wantzel, 339.

CARMICHAEL, R. D. Elementary Inequalities for the Roots of an Algebraic Equation, 286.

—— See REVIEWS, under Forsyth, Goursat, Hancock, Huntington, Vallée Poussin.

CARSLAW, H. S. See REVIEWS, under Carslaw.

COLE, F. N. Reports of Meetings of the American Mathematical Society: Twenty-Fourth Summer Meeting, 57; October Meeting, 169; Twenty-Fourth Annual Meeting, 265; February Meeting, 369; April Meeting in New York, 465.

COWLEY, E. B. See REVIEWS, under Phillips.

CUMMINGS, L. D. An Undervalued Kirkman Paper, 336.

DRESDEN, A. Reports of Meetings of the American Mathematical Society at Chicago: December Meeting, 275; April Meeting, 420.

—— See REVIEWS, under Barrow, Riebesell.

EISENHART, L. P. Darboux's Contribution to Geometry, 227.

—— See REVIEWS, under Darboux.

EMCH, A. On the Invariant Net of Cubics in the Steinerian Transformation, 327

FORSYTH, C. H. Tangential Interpolation of Ordinates among Areas, 431.

FORT, T. Some Theorems of Comparison and Oscillation, 330.

GRAUSTEIN, W. C. Note on Isogenous Complex Functions of Curves, 473.

GREEN, G. M. Note on Conjugate Nets with Equal Point Invariants, 221.

GROVE, C. C. See REVIEWS, under Bartlett, Mann, Zaldari.

HANCOCK, H. See REVIEWS, under Hancock.

HART, W. L. Note on Infinite Systems of Linear Equations, 334.

HILDEBRANDT, T. H. On Integrals Related to and Extensions of the Lebesgue Integrals, 113, 177.

JACKSON, D. Note on the Parametric Representation of an Arbitrary Continuous Curve, 77.

KARPINSKI, L. C. See REVIEWS, under Fazzari.

KELLOGG, O. D. Report of the Eleventh Regular Meeting of the Southwestern Section, 217.

KEYSER, C. J. The Rôle of the Concept of Infinity in the Work of Lucretius, 321.

—— Note Concerning the Number of Possible Interpretations of any System of Postulates, 391.

LIGHT, G. H. The Intrinsic Equation for Euler's Resistance Integral, 480.

LONGLEY, W. R. See REVIEWS, under Lecornu.

LOVITT, W. V. See REVIEWS, under Popplewell.

MANNING, W. A. Report of the Thirtieth Regular Meeting of the San Francisco Section, 175.

MASON, T. E. See REVIEWS, under Hudson.

MILLER, G. A. Groups Formed by Special Matrices, 203.

MITCHELL, H. H. See REVIEWS, under Blichfeldt.

MOORE, C. N. A Continuous Function whose Development in Bessel's Functions is Non-Summable of Certain Orders, 145.

MORGAN, F. M. See REVIEWS, under Wilczynski, Woods.

PIERPONT, J. See REVIEWS, under Hermite.

RANUM, A. See REVIEWS, under Miller.

RIDER, P. R. A Theorem on the Variation of a Function, 430.

RITT, J. F. On the Differentiability of Asymptotic Series, 225.

SAFFORD, F. H. Irrational Transformations of the General Elliptic Element, 74.

—— Surfaces of Revolution in the Theory of Lamé's Products, 384.

SHAW, J. B. See REVIEWS, under Zoretti.

SLOCUM, S. E. See REVIEWS, under Finney, Flamard, Martin.

SMITH, D. E. John Wallis as a Cryptographer, 82.

—— See REVIEWS, under Cajori, Zeuthen.

SNYDER, V. See REVIEWS, under Müller.

WAHLIN, G. E. See REVIEWS, under Fraenkel.

WELLS, M. E. See REVIEWS, under Barker.

WHITE, H. S. See REVIEWS, under Cremona.

WILSON, E. B. See REVIEWS, under Lorentz, Schaefer.

REVIEWS.

Annuaire du Bureau des Longitudes pour l'An 1917, E. W. BROWN, 157; pour l'An 1918, E. W. BROWN, 498.

Bailey, F. H. See Woods, F. S.

Barker, E. H. Plane Trigonometry with Tables, M. E. WELLS, 491.

Barrow, I. The Geometrical Lectures of Isaac Barrow, translated by J. M. Child, A. DRESDEN, 454.

Bartlett, D. P. The Method of Least Squares with Applications (third edition), C. C. GROVE, 258.

Blichfeldt, H. F. Finite Collineation Groups, H. H. MITCHELL, 243; H. F. BLICHFELDT, 484.

—— See Miller, G. A.

Brown, J. C. See Finney. H. A.

Byerly, W. E. Introduction to the Calculus of Variations, R. C. ARCHIBALD, 97.

Cajori, F. A History of Elementary Mathematics with Hints on Methods of Teaching, D. E. SMITH, 309.

Carslaw, H. S. The Elements of Non-Euclidean Plane Geometry and Trigonometry, H. S. CARSLAW, 159.

Child, J. M. See Barrow, I.

Cremona, L. Opere matematiche, 1o e 2o volume, H. S. WHITE, 238.

Darboux, G. Principes de Géométrie analytique, L. P. EISENHART, 394.

Dickson, L. E. See Miller, G. A.

Dunkel, O. See Goursat, E.

Exposition universelle et internationale de San Francisco. La Science française, R. C. ARCHIBALD, 442.

Fazzari, G. Elementi di Aritmetica (terza e quarta edizione), parte 1a, L. C. KARPINSKI, 256.

Finney, H. A. and Brown, J. C. Modern Business Arithmetic, Complete Course, S. E. SLOCUM, 490.

Flamard, E. Calcul des Systèmes élastiques de la Construction, S. E. SLOCUM, 496.

Forsyth, A. R. Lectures Introductory to the Theory of Functions of Two Complex Variables, R. D. CARMICHAEL, 446.

Fraenkel, A. Ueber gewisse Teilbereiche und Erweiterungen von Ringen, G. E. WAHLIN, 493.

Goursat, E. A Course in Mathematical Analysis, volume 2, part 2, translated by E. R. Hedrick and O. Dunkel, R. D. CARMICHAEL, 255.

Halsted, G. B. See Lobachevsky, N.

Hancock, H. Elliptic Integrals, R. D. CARMICHAEL, 252; H. HANCOCK, 487.

Hedrick, E. R. See Goursat, E.

Hermite, C. Œuvres, volume 4, J. PIERPONT, 481.

Hudson, R. G. and Lipka, J. A Manual of Mathematics, T. E. MASON, 410.

—— A Table of Integrals, T. E. Mason, 410.

Huntington, E. V. The Continuum and Other Types of Serial Order (second edition), R. D. Carmichael, 254.

Kerst, B. Methoden zur Lösung geometrischer Aufgaben, R. C. Archibald, 457.

Lecornu, L. Cours de Mécanique, volume 2, W. R. Longley, 99.

Lipka, J. See Hudson, R. G.

Lobachevsky, N. Geometrical Researches in the Theory of Parallels, translated by G. B. Halsted, R. C. Archibald, 437.

Lorentz, H. A. Les Théories statistiques en Thermodynamique, E. B. Wilson, 99.

—— The Theory of Electrons and its Applications to the Phenomena of Light and Radiant Heat, E. B. Wilson, 100.

Mann, H. L. A Text-Book on Practical Mathematics for Advanced Technical Students, C. C. Grove, 312.

Martin, L. A. Text-Book of Mechanics, volume 6: Thermodynamics, S. E. Slocum, 258.

Miller, G. A. Historical Introduction to Mathematical Literature, R. C. Archibald, 301.

Miller, G. A., Blichfeldt, H. F., and Dickson, L. E. Theory and Applications of Finite Groups, A. Ranum, 150.

Moulton, J. F. See Science and the Nation.

Müller, E. Lehrbuch der darstellenden Geometrie für technische Hochschulen, 2ter Band, 2te Abteilung, V. Snyder, 257.

Phillips, H. B. Differential Calculus, E. B. Cowley, 488.

—— Integral Calculus, E. B. Cowley, 488.

Picard, E. L'Histoire des Sciences et les Prétentions de la Science allemande, R. C. Archibald, 442.

Popplewell, W. C. The Elements of Surveying and Geodesy, W. V. Lovitt, 260.

Riebesell, P. Die mathematischen Grundlagen der Variations- und Vererbungslehre, A. Dresden, 457.

Schaefer, C. Einführung in die theoretische Physik, 1ter Band, E. B. Wilson, 101.

Science and Learning in France with a Survey of Opportunities for American Students in French Universities, R. C. Archibald, 442.

Science and the Nation. Essays by Cambridge graduates with an Introduction by Lord Moulton, edited by A. C. Seward, R. C. Archibald, 98.

Seward, A. C. See Science and the Nation.

Slaught, H. E. See Wilczynski, E. J.

Teixeira, F. G. Sur les Problèmes célèbres de la Géométrie élémentaire, R. C. Archibald, 207.

Thompson, D'A. W. On Growth and Form, R. C. Archibald, 403.

Vallée Poussin, C. J. de la. Intégrales de Lebesgue, Fonctions d'Ensembles, Classes de Baire, R. D. Carmichael, 348.

Weld, L. D. Theory of Errors and Least Squares, E. W. Brown, 158.

Wilczynski, E. J. College Algebra with Applications, edited by H. E. Slaught, F. M. Morgan, 359.

Woods, F. S. and Bailey, F. H. Analytic Geometry and Calculus, F. M. Morgan, 96.

Zaldari, P. Annuities and Amortization Tables, C. C. Grove, 361.

Zeuthen, H. G. Hvorledes Mathematiken i Tiden fra Platon til Euklid Blev Rationel Videnskab, D. E. Smith, 407.

Zoretti, L. Exercices numériques de Mathématiques, J. B. Shaw, 355.

—— Leçons de Mathématiques générales, J. B. Shaw, 355.

—— Tables numériques usuelles, J. B. Shaw, 493.

Index of Volume XXIV, 511.
New Publications, 53, 109, 165, 214, 263, 318, 366, 414, 462, 501.
Notes, 47, 104, 160, 211, 260, 314, 362, 411, 459, 499.
Papers Read before the Society and Subsequently Published, Twenty-Seventh Annual List of, 504.

Notes and Other Items.

Academies, Associations, Congresses, and Societies:
American Mathematical Society: Annual Meeting, 160, 465; Chicago Section; Winter Meeting, 160, Symposium, 314, 465; Election of Officers, 266; Library, 169; New Members Admitted, 58, 169, 265, 369, 465; Statistics, 265; Summer Meeting, 265; Transactions, 47, 160, 315, 465, 499.
Association for the Advancement of Science, American, 104, 261, 362.
American Philosophical Society, 413; American Society of Civil Engineers, 365; British Mathematical Association, 316; Circolo Matematico di Palermo, 48; Edinburgh Mathematical Society, 48, 211, 261, 316, 411, 500; London Mathematical Society, 51, 211, 261, 362, 411, 459; Mathematical Association of America, 104, 161, 260, 314, 500; National Academy of Sciences, 261, 412; Paris Academy of Sciences, 262, 316, 364; Royal Society of Edinburgh, 211; Swiss Mathematical Society, 48, 261; Vienna Academy of Sciences, 364.
Books, Announcement of New, 412.
Catalogues of Books, 108, 262, 363, 414, 462.
Doctorates in Mathematics, American, 161, 261.
Journals: American Journal of Mathematics, 47, 160, 315, 411; American Mathematical Monthly, 315, 500; Annals of Mathematics, 105, 211, 362, 500; Bollettino di Bibliografia e Storia delle Scienze Matematiche, 411; Bulletin de la Société Mathématique de France, 161; Notes and Queries, 106; Proceedings of the American Academy of Arts and Sciences, 362; Proceedings of the National Academy of Sciences, 161, 315; Rendiconti del Circolo Matematico di Palermo, 48; Science Progress, 105; Transactions of the American Mathematical Society, 47, 160, 315, 465, 499.

Papers and Communications Presented to the Society, Authors:
Altshiller, N., 217, 217.
Ames, L. D., 275.
Bell, E. T., 417, 417.
Bernstein, B. A., 175.

Birkhoff, G. D., 170.
Blichfeldt, H. F., 417.
Bliss, G. A., 277.
Blumberg, H., 217, 217.
Borden, R. F., 422.
Brand, L., 422.
Burgess, H. T., 277.
Burgess, R. W., 59.
Cajori, F., 59, 59.
Carmichael, R. D., 169, 217, 276, 277, 421, 422.
Carver, W. B., 266.
Chittenden, E. W., 276.
Coble, A. B., 59.
Cummings, L. D., 169
Curtis, M. F., 60, 466.
Decker, F. F., 466.
Dickson, L. E., 175.
Dines, L. L., 59.
Dodd, E. L., 60, 276.
Eiesland, J., 60.
Eisenhart, L. P., 59, 60, 370.
Emch, A., 58, 276, 422, 465.
Ettlinger, H. J., 60, 60, 277.
Fischer, C. A., 267.
Fite, W. B., 170, 267.
Ford, W. B., 275.
Forsyth, C. H., 266, 276.
Fort, T., 59.
Gaba, M. G., 59.
Gillespie, D. C., 60.
Glenn, O. E., 170, 267, 370, 466.
Graustein, W. C., 60.
Green, G. M., 59, 59, 267.
Hallett, G. H., Jr., 466.
Harding, A. M., 217.
Haskell, M. W., 417.
Hazlett, O. C., 267, 369.
Hedrick, E. R., 218.
Hildebrandt, T. H., 422.
Hitchcock, F. L., 266.
Hollcroft, T. R., 267.
Hopkins, J. W., 466.
Hoskins, L. M., 175.
Hu, M. T., 267.
Huntington, E. V., 60.
Hurwitz, W. A., 60.
Ingold, L., 218.
Kasner, E., 170, 466.
Kellogg, O. D., 59, 217.
Kempner, A. J., 277.
Keyser, C. J., 266, 266.
Kingston, H. R., 277.
Kline, J. R., 170, 369, 466.
Lane, E. P., 422.
Lefschetz, S., 217, 422.
Lehmer, D. N., 417, 417.
McAtee, J. E., 217.
Manning, W. A., 175.
Mathewson, L. C., 59.
Miller, G. A., 59, 277, 422, 422.
Moore, C. L. E., 267, 276, 466, 466.
Moore, C. N., 59, 277, 421, 421.
Moore, R. L., 170, 170, 267, 369.
Morley, F., 267.
Nelson, A. L., 277.
Osgood, W. F., 267.
Pell, A. J., 267.
Pfeiffer, G. A., 170.
Phillips, H. B., 276, 276, 466.
Richardson, R. G. D., 59.
Rider, P. R., 217, 369, 422.
Ritt, J. F., 170, 267, 369, 370, 465.
Roe, E. D., 59, 59, 59.
Roe, J. R., 59.
Roever, W. H., 218.
Rouse, L. J., 422.
Rowe, J. E., 58, 58, 58, 170, 466.
Safford, F. H., 466.
Schweitzer, A. R., 276, 276, 369, 369, 369, 422, 422.
Seely, C. E., 466.
Sharpe, F. R., 59, 466.
Shaw, J. B., 277.
Sisam, C. H., 421.
Slocum, S. E., 370.
Smith, M. G., 421.
Snyder, V., 59, 466.
Vandiver, H. S., 466, 466, 466, 466.
Veblen, O., 170, 170.
Wahlin, G. E., 276.
Walsh, J. L., 369.
Whittemore, J. K., 170.
Wiener, N., 267.
Wilczynski, E. J., 422.
Wilson, W. H., 266.
Winger, R. M., 175, 417, 417.

Personal Notes:

Abel, N. H., 364; Adkins, L. K., 212; Albenga, G., 461; Albert, O. W., 213; Alexander, J. W., II, 106; Alford, T. G., 163; Andrade, J., 262; Apple, A. T. G., 366; Autonne, L., 365.

Baker, R. P., 213; Barney, I., 107; Barnhardt, C. A., 108; Barter, J. D., 261; Bateman, H., 164; Beatty, S., 107; Beck, A., 364; Beck-

with, W. E., 212; Belcher, D. R., 212; Bennett, A. A., 106; Benteli, A., 413; Bernstein, B. A., 461; Berry, W. J., 163; Berzolari, L., 461; Besant, W. H., 108; Betz, H., 108; Bill, E. G., 461; Birkhoff, G. D., 362, 412; Bordeaux, A., 316; Borel, E., 461; Boyd, P. P., 107; Bramble, C. C., 161, 165; Brand, L., 51; Bromwich, T. J. I'a., 211; Brown, E. W., 413; Buck, T., 461; Burgess, R. W., 165; Butterfield, A. D., 106.

Cairns, W. D., 315; Cajori, F., 461; Calhoun, J. W., 164; Camp, C. C., 161, 163; Campbell, A. D., 107; Caris, A. G., 365; Carll, L. B., 414; Carmichael, R. D., 314, 315; Carruth, W. M., 51; Castelnuovo, G., 461; Cisotti, U., 50, 50; Clarke, E. H., 164; Clevenger, C. H., 213; Cobb, C. W., 163; Colometti, G., 461; Conner, J. F., 106; Coolidge, J. L., 317, 413; Crelier, L., 364; Cresse, G. H., 163; Crissy, D. H., 163; Cronin, S. E., 161; Crum, W. L., 161, 413; Crump, C. C., 108; Curtis, H. B., 106; Curtis, M. F., 161, 212, 413.

Daniele, E., 50; Dantzig, 161; Davis, A., 501; Davis, E. B., 108; Davis, E. W., 318; Davis, J. E., 365; Decker, F. F., 262; Denton, W. W., 108; DePorte, 462; Dickson, L. E., 51; Dines, C. R., 52; Disteli, M., 364; Dodd, E. L., 164; Duhem, P., 316.

Edington, W. E., 317; Edwards, G. C., 461; Einstein, A., 364; Engler, E. A., 366; Epperson, C. A., 212, 262; Ettlinger, H. J., 164; Evans, G. C., 413.

Field, P., 106; Finsterwalder, S., 364; Ford, L. R., 161, 317; Ford, W. B., 163; Frary, H. D., 317; Frizell, A. B., 107; Frobenius, G., 365.

Garretson, W. V. N., 107; Garrison, W. A., 51; Gentry, R., 165; Gervas, M., 262; Gibson, G. A., 211; Gilman, R. E., 106; Gleason, R. E., 213; Glenn, O. E., 163; Gossard, H. C., 52; Goursat, E., 461; Grant, E. D., 161; Groat, B. F., 365.

Hadamard, J., 461; Hahn, H., 364; Halperin, H., 52; Hamburger, A., 366; Hamlin, T. L., 212; Hannevig, C., 364; Hardy, G. H., 211; Harris, R. A., 318; Hart, W. L., 106; Hartwell, G. W., 52; Haskins, C. N., 163; Hawkes, H. E., 212, 501; Hawkesworth, A. S., 262; Hazlett, O. C., 462; Hebbert, C. M., 162, 165; Hedlund, M., 212; Helmert, F. R., 414; Higley, H. R., 414; Hill, L. S., 106; Hilton, H., 211; Hitchcock, F. L., 52; Hobbs, A. W., 162, 165; Hobson, E. W., 211; Hollcroft, T. R., 162; Hopkins, J. W., 106; Hopkins, L. A., 163; Hornung, C., 366; Horton, G. P., 162, 213; Hu, M. T., 162; Hubble, E. P., 162; Hubert, W. G., 262; Huntington, E. V., 314.

Irwin, F., 461.

James, G., 163; James, V., 213; Johnson, R. A., 107; Jones, E. H., 213; Jones, G. D., 163; Jones, J. L., 262; Jonckheere, R., 316; Jordan, C., 500; Jordan, M. F., 365; Julia, G., 262.

Kean, H. P., 164; Keffer, R., 501; Kelleher, S. B., 108; Kells, L. M., 163, 317; Kerr, F. L., 107; Kikuchi, D., 108; Killam, S. D., 106; Kindle, J. H., 51; Kircher, E. A. T., 106; Kline, J. R., 163; Koenigs, G., 461.

Lamb, H., 461; Lambert, W. D., 212; Lamson, K. W., 52, 162; Lane, E. S., 501; Larew, G. A., 162; Larmor, J., 211; Larsen, A. W., 317; Lebesgue, H., 316; Lehmer, D. N., 315, 461; Leib, D. D., 164, 501; LeStourgeon, F. E., 162; Leuschner, A. O., 212; Levi, E. E., 462; Levy, C. T., 214; Lewis, F. P., 413; Light, G. H., 213; Logsdon, M., 213; London, F., 366; Lunn, A. C., 107.

McAtee, J. E., 212, 317; McKelvey, J. V., 106; MacDonald, H. M., 211; Maggi, G. A., 461; Marcolongo, R., 461; Marshall, W., 163, 262;

Mathewson, L. C., 52; Mehmke, R., 364; Merrill, A. S., 162; Miller, A. L., 163; Miller, I. L., 164; Millis, J. F., 214; Milne, W. E., 413; Mitchell, B. E., 162; Mohrmann, H., 364; Moore, C. N., 51, 314; Morehead, J. C., 164; Morse, H. C. M., 162, 413; Moulton, E. J., 107; Moulton, F. R., 105, 362, 413; Mullins, G. W., 162; Murray, F. H., 501; Musselman, J. R., 317.

Nichols, I. C., 162, 213; Norris, S. F., 214; Norton, A. H., 413; Nowlan, F. S., 51; Nyswander, J. A., 163.

Olson, H. L., 462; Ott, E., 414.

Painlevé, P., 106, 364; Palmié, A. H., 212; Parsons, C. H., 501; Pell, A. J., 462; Pfeiffer, G. A., 501; Pierce, T. A., 106; Pincherle, L., 461; Ponzer, E. W., 366; Poor, V. C., 163; Posey, F. D., 317; Pride, H. H., 212.

Reed, F. W., 165; Reina, V., 461; Ricci, G., 461; Rice, J. N., 262; Rice, L. H., 213; Richards, T. W., 104; Riley, J. L., 51; Ritt, J. F., 162, 413; Robbins, R. B., 163; Roever, W. H., 107; Rosenbach, J. B., 213; Russell, H. N., 105.

Sanders, S. T., 213; Saussure, R. de, 262; Schaumasse, A., 316; Schmidt, E., 365; Scott, G. H., 107; Severi, F., 461; Shepard, E. I., 163; Showman, H. M., 462; Siceloff, L. P., 413; Silverman, L. L., 163; Simon, W. G., 413; Simonds, E. F., 162, 164; Simpson, T. McN., 52, 162, 164; Slaught, H. E., 315; Smith, C. E., 413; Smith, D. M., 162; Smith, E. S., 51; Smith, G. W., 162, 164; Smith, P. F., 365, 465; Sperry, P., 164; Stark, M. E., 213; Stauffer, Q., 365; Stecker, H. F., 107; Steimley, L. L., 317; Stéphanos, C., 414; Stetson, J. M., 163; Stouffer, E. B., 51; Strazzeri, V., 51.

Tanzola, J. J., 365; Tappan, A. H., 164; Teixeira, F. G., 316; Terrill, H. M., 365; Thorne, P. L., 212; Togliatti, E. G., 461; Tripp, M. O., 107; Tudor, J. H., 107.

Underhill, A. L., 106.

Vallée Poussin, C. J. de la, 316; Van der Vries, J. N., 262; Van Hise, C. R., 105; Veblen, O., 106; Vergerio, A., 461; Veronese, G., 52; Villat, H., 262; Viterbi, A., 50, 462; Vivian, R. H., 413; Volterra, V., 317.

Waldo, C. A., 51; Walsh, J. L., 317; Weaver, W., 501; Wechsler, A. L., 365; Weida, F. M., 213; Wells, V. H., 163, 365; Westlund. J., 163; White, E. A., 162; Whittaker, E. T., 211; Willard, H. R., 213; Williams, K. P., 106; Wilson, W. H., 162, 164; Wood, F., 365; Wright, H. N., 51.

Yeaton, C. H., 212; Young, J. W., 315; Young, W. H., 51.

Prizes:

American Society of Civil Engineers, Norman Medal, 365; London Mathematical Society, De Morgan Medal, 51; Paris Academy, 262, 316; Vienna Academy, Baumgartner Prize, 364.

Universities and Technical Schools:

Bologna, 48.
California, 363, 459.
Catania, 48.
Chicago, 363, 460.
Columbia, 412.
Cornell, 363, 459.
Genoa, 48.
Harvard, 211.
Illinois, 363, 460, 500.
Johns Hopkins, 459.
Naples, 49.
Padua, 49.
Palermo, 49.
Pavia, 49.
Pisa, 50.
Rice Institute, 162.
Rome, 50.
Turin, 50.
Wisconsin, 364.

Whole No. 261

CONTENTS

PAGE

Integrals of Lebesgue. By Professor G. A. Bliss - - 1

Notes - - - - - - - - - - - - 47

New Publications - - - - - - - - - - 53

Whole No. 262

CONTENTS

PAGE

The Twenty-Fourth Summer Meeting of the American Mathematical Society. By Professor F. N. Cole - 57

Irrational Transformations of the General Elliptic Element. By Professor F. H. Safford - - - - - 74

Note on the Parametric Representation of an Arbitrary Continuous Curve. By Professor Dunham Jackson - - 77

John Wallis as a Cryptographer. By Professor D. E. Smith - - - - - - - - - - 82

Shorter Notices - - - - - - - - - - 96

Notes - - - - - - - - - - - - 104

New Publications - - - - - - - - 109

Whole No. 263

CONTENTS

PAGE

On Integrals Related to and Extensions of the Lebesgue Integrals. By Professor T. H. HILDEBRANDT - - 113

A Continuous Function Whose Development in Bessel's Functions is Non-Summable of Certain Orders. By Professor C. N. MOORE - - - - - - 145

Finite Groups. By Professor ARTHUR RANUM - - - 150

Shorter Notices - - - - - - - - - - 157

Carslaw's Non-Euclidean Geometry. By Professor H. S. CARSLAW - - - - - - - - - 159

Notes - - - - - - - - - - - 160

New Publications - - - - - - - - 165

Whole No. 264

CONTENTS

PAGE

The October Meeting of the American Mathematical Society. By Professor F. N. COLE - - - - - - 169

The October Meeting of the San Francisco Section. By Professor W. A. MANNING - - - - - - 175

On Integrals Related to and Extensions of Lebesgue Integrals (continued). By Professor T. H. HILDEBRANDT 177

Groups Formed by Special Matrices. By Professor G. A. MILLER - - - - - - - - - 203

Celebrated Problems of Geometry. By Professor R. C. ARCHIBALD - - - - - - - - - 207

Notes - - - - - - - - - - - 211

New Publications - - - - - - - - 214

CONTENTS FOR WHOLE NO. 265 MISSING.

Whole No. 266

CONTENTS

PAGE

The Twenty-Fourth Annual Meeting of the American Mathematical Society. By Professor F. N. COLE - 265

The Winter Meeting of the Chicago Section. By Professor ARNOLD DRESDEN - - - - - - - - - 275

Elementary Inequalities for the Roots of an Algebraic Equation. By Professor R. D. CARMICHAEL - - - 286

The Solution of the Wave Equation by Means of Definite Integrals. By Professor H. BATEMAN - - - - 296

Literature of Pure Mathematics. By Professor R. C. ARCHIBALD - - - - - - - - - - 301

Shorter Notices - - - - - - - - - - 309

Notes - - - - - - - - - - - - 314

New Publications - - - - - - - - - 318

Whole No. 267

CONTENTS

PAGE

The Rôle of the Concept of Infinity in the Work of Lucretius. By Professor C. J. KEYSER - - - - 321

On the Invariant Net of Cubics in the Steinerian Transformation. By Professor ARNOLD EMCH - - - - 327

Some Theorems of Comparison and Oscillation. By Professor TOMLINSON FORT - - - - - - - 330

Note on Infinite Systems of Linear Equations. By Dr. W. L. HART - - - - - - - - - - 334

An Undervalued Kirkman Paper. By Professor LOUISE D. CUMMINGS 336

Pierre Laurent Wantzel. By Professor FLORIAN CAJORI - 339

Additive Functions of a Point Set. By Professor R. D. CARMICHAEL - - - - - - - - - 348

Shorter Notices - - - - - - - - - - 355

Notes - - - - - - - - - - - - 362

New Publications - - - - - - - - - 366

Whole No. 268

CONTENTS

PAGE

The February Meeting of the American Mathematical Society. By Professor F. N. COLE - - - - 369

Some Remarkable Determinants of Integers. By Professor E. T. BELL - - - - - - - - - - 376

A Theorem on Semi-Continuous Functions. By Professor HENRY BLUMBERG - - - - - - - - 381

Surfaces of Revolution in the Theory of Lamé's Products. By Professor F. H. SAFFORD - - - - - 384

Note Concerning the Number of Possible Interpretations of any System of Postulates. By Professor C. J. KEYSER 391

Darboux's Principles of Geometry. By Professor L. P. EISENHART - - - - - - - - - - 394

Shorter Notices - - - - - - - - - - 403

Notes - - - - - - - - - - - - 411

New Publications - - - - - - - - - 414

Whole No. 269

CONTENTS

PAGE

The April Meeting of the San Francisco Section. By Professor B. A. BERNSTEIN - - - - - - - 417

The April Meeting of the American Mathematical Society at Chicago. By Professor ARNOLD DRESDEN - - 420

A Theorem on the Variation of a Function. By Dr. P. R. RIDER - - - - - - - - - - - 430

Tangential Interpolation of Ordinates among Areas. By Dr. C. H. FORSYTH - - - - - - - - 431

Non-Euclidean Geometry. By Professor R. C. ARCHIBALD 437

French Science. By Professor R. C. ARCHIBALD - - 442

Functions of Two Complex Variables. By Professor R. D. CARMICHAEL - - - - - - - - - 446

Shorter Notices - - - - - - - - - - 454

Notes - - - - - - - - - - - - 459

New Publications - - - - - - - - - 462

Whole No. 270

CONTENTS

PAGE

The April Meeting of the American Mathematical Society in New York. By Professor F. N. COLE - - - 465

Note on Isogenous Complex Functions of Curves. By Professor W. C. GRAUSTEIN - - - - - - - 473

An Elementary Derivation of the Probability Function. By Captain A. A. BENNETT - - - - - - - 477

The Intrinsic Equation for Euler's Resistance Integral. By Professor G. H. LIGHT - - - - - - - 480

Hermite's Works. By Professor JAMES PIERPONT - - 481

Blichfeldt's Finite Collineation Groups. By Professor H. F. BLICHFELDT - - - - - - - - - 484

Remarks on Elliptic Integrals. By Professor HARRIS HANCOCK . - - - - - - - - - - 487

Shorter Notices - - - - - - - - - - 488

Notes - - - - - - - - - - - - 499

New Publications - - - - - - - - - 501

Twenty-Seventh Annual List of Published Papers - - 504

Index to Volume XXIV - - - - - - - - 511